

WHAT IS CLAIMED IS:

1. A recording medium on which it is possible to record a password;  
wherein

5 the password is any one of a first password that cannot be updated and that is unique for each individual data processing apparatus, and a second password that is common for a plurality of data processing apparatuses including said data processing apparatus and that can be re-written to said first password;

10 the data that are used in data processing by said data processing apparatus are recorded; and

said second password is recorded on said recording medium before being installed in said data processing apparatus.

15 2. A data processing apparatus that executes said data processing using said data that are recorded on said recording medium of claim 1, and comprising:

a memory device for storing said first password data together with said second password data;

an extraction device for extracting the password data that are recorded on said recording medium;

20 a judgment device for determining the contents of said extracted password data; and

an update device for updating said password data that are recorded on said recording medium to said first password data when said judged contents are the same as the contents of said second password.

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3. The data processing apparatus of claim 2, further comprising:

a recording and reproduction device for performing at least recording data

on or reproducing data from said recording medium; and

a prohibiting device for prohibiting execution of said recording or said reproduction when said judged contents differ from both the contents of said first password and contents of said second password that are stored in said memory device.

4. A data processing apparatus with pre-installed a re-writable recording medium and comprising:

a password memory device for storing a first password that is unique for each data processing apparatus, and which must be used in order to perform recording of data on or reproduction of data from said recording medium;

a recording and reproduction device for using said stored first password to perform recording or reproduction;

a judgment device for determining whether or not it is possible to perform recording of data to or reproduction of data from an update recording medium by using a second password, which must be used in order to perform recording of data on or reproduction of data from said update recording medium, that is another medium, and that is used when updating the data on said recording medium;

an update device for updating said data on said recording medium by using the data recorded on a proper update medium, which has been determined to be a proper update recording medium for which it is possible to perform either recording or reproduction by using said second password; and

a change device for changing said second password to said first password after updating said data.

5. The data processing apparatus of claim 4, wherein

said second password is common for a plurality of said proper update

recording media.

6. The data processing apparatus of claim 4, wherein  
said second password is stored in said password memory device together  
5 with said first password.

7. The data processing apparatus of claim 4, wherein  
said second password is supplied externally together with said update  
recording medium.

10 8. A data processing apparatus with pre-installed a re-writable recording  
medium and comprising:

15 a first password memory device for storing a first password that is unique  
for each individual data processing apparatus and that must be used in order to  
perform either recording of data on or reproduction of data from said recording  
medium;

a recording and reproduction device for performing either recording or  
reproduction of data using said stored first password; and

20 a second password memory device for storing a second password that  
must be used in order to perform either recording of data on or reproduction of data  
from an update medium, which is another medium, and which is used when  
updating the data on said recording medium.

25 9. A data processing method for a data processing apparatus with  
pre-installed a re-writable recording medium and comprising:

a password memory process for storing a first password that is unique for  
each data processing apparatus, and which must be used in order to perform

recording of data on or reproduction of data from said recording medium;

a recording and reproduction process for using said stored first password to perform recording or reproduction;

5 a judgment process for determining whether or not it is possible to perform recording of data on or reproduction of data from an update recording medium by using a second password, which must be used in order to perform recording of data on or reproduction of data from said update recording medium, that is another medium, and that is used when updating the data on said recording medium;

10 an update process for updating said data on said recording medium by using the data recorded on a proper update medium, which has been determined to be a proper update recording medium for which it is possible to perform either recording or reproduction by using said second password; and

15 a change process for changing said second password to said first password after updating said data.

10. The data processing method of claim 9, wherein

said second password is common for a plurality of said proper update recording media.

20 11. A data recording medium on which a data processing program is recorded so as to be readable through a computer which is contained in a data processing apparatus with a pre-installed re-writable recording medium and which causes said computer to function as:

25 a password memory device for storing a first password that is unique for each data processing apparatus, and which must be used in order to perform recording of data on or reproduction of data from said recording medium;

a recording and reproduction device for using said stored first password to

perform recording or reproduction;

5 a judgment device for determining whether or not it is possible to perform recording of data on or reproduction of data from an update recording medium by using a second password, which must be used in order to perform recording of data on or reproduction of data from said update recording medium, that is another medium, and that is used when updating the data on said recording medium;

10 an update device for updating said data on said recording medium by using the data recorded on a proper update medium, which has been determined to be a proper update recording medium for which it is possible to perform either recording or reproduction by using said second password; and

a change device for changing said second password to said first password after updating said data.

15 12. The data recording medium of claim 11 on which a data processing program is recorded so as to be readable through a computer, wherein

said second password is common for a plurality of said proper update recording media.

20 13. A data processing apparatus with a re-writable recording medium and a controlling device, wherein

the re-writable recording medium comprises first data; second data which is used for updating the first data; a first password which is used for access to the first data; and a second password which is used for access to the second data; and

25 the controlling device clears restriction of access to the first data with the use of the first password;

the controlling device determines whether the second data is original with the use of the second password; and

the controlling device updates the first data with the second data when the second data is determined to be original.

14. The data processing apparatus of claim 13, wherein  
5 the controlling device changes the second password to the first password after the update of the first data; and

the controlling device makes access to the first data and the second data with the use of the first password.

10 15. The data processing apparatus of claim 13, wherein  
the first data is stored in the first recording medium;  
the second data is stored in the second recording medium;  
the first password is used for access to the first medium; and  
the second password is used for access to the second medium.

15 16. The data processing apparatus of claim 13, wherein  
the first password is unique for each individual data processing apparatus;  
and  
the second password is common for a plurality of update recording media.

20 17. The data processing apparatus of claim 16, comprising:  
a password memory device for storing both the first password and the  
second password.

25 18. The data processing apparatus of claim 13, wherein  
both first data and second data are map data; and  
the second data is newer than the first data.

19. A data processing method for a data processing apparatus with a re-writable recording medium and a controlling device, and comprising:

5 a clear process for clearing restriction of access to the first data with the use of the first password;

a determination process for determining whether the second data is original with the use of the second password; and

an update process for updating the first data with the second data when the second data is determined to be original.

10 20. The data processing method of claim 19, wherein

the second password is changed to the first password after the update of the first data.

15 21. The data processing method of claim 19, wherein

the first data is stored in the first recording medium;

the second data is stored in the second recording medium;

the first password is used for access to the first medium; and

the second password is used for access to the second medium.

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22. The data processing method of claim 19, wherein

the first password is unique for each individual data processing apparatus;

and

the second password is common for a plurality of update recording media.

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23. The data processing method of claim 22, wherein

a password memory device stores both the first password and the second

password.

24. The data processing method of claim 19, wherein  
both first data and second data are map data; and  
the second data is newer than the first data.